

# Comparisons of Job Characteristics

**Focus Occupation:** [Welders, Cutters, Solderers, and Brazers \(51-4121\)](#)

**Associated Occupation:** [Commercial Divers \(49-9092\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

## Knowledge

Similarity of Focus Occupation to Associated Occupation: 71

**Focus Occupation:** Welders, Cutters, Solderers, and Brazers (51-4121)

**Associated Occupation:** Commercial Divers (49-9092)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Mechanical	6.8	18.8	9.5	<<	Extensive education and/or training may be required
Building and Construction	4.0	18.6	4.9	<<	Extensive education and/or training may be required
Physics	4.3	14.5	2.6	<<	Extensive education and/or training may be required
Engineering and Technology	5.7	13.9	6.4	<<	Extensive education and/or training may be required
Design	5.2	12.0	6.0	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Skills

Similarity of Focus Occupation to Associated Occupation: 92

**Focus Occupation:** Welders, Cutters, Solderers, and Brazers (51-4121)

**Associated Occupation:** Commercial Divers (49-9092)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Operation Monitoring	6.6	11.5	7.8	<<	Extensive development of skills in this area may be required
Quality Control Analysis	5.9	10.6	7.4	<<	Extensive development of skills in this area may be required
Operation and Control	5.4	10.3	5.9	<<	Extensive development of skills in this area may be required
Repairing	3.4	9.2	5.9	<<	Extensive development of skills in this area may be required

Equipment Maintenance	3.5	9.1	5.9	<<	Extensive development of skills in this area may be required
Troubleshooting	4.5	8.7	6.2	<<	Extensive development of skills in this area may be required
Equipment Selection	3.3	7.9	5.4	<<	Extensive development of skills in this area may be required
Installation	1.7	5.2	1.6	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 86			
Focus Occupation: Welders, Cutters, Solderers, and Brazers (51-4121) Associated Occupation: Commercial Divers (49-9092)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Arm-Hand Steadiness	6.8	12.3	11.4	0	Current ability level may be sufficient
Extent Flexibility	4.8	12.3	5.2	<<	Extensive improvement in abilities may be required
Multilimb Coordination	6.0	11.9	7.4	<<	Extensive improvement in abilities may be required
Perceptual Speed	7.4	11.4	6.8	<<	Extensive improvement in abilities may be required
Depth Perception	5.3	10.8	7.1	<<	Extensive improvement in abilities may be required
Gross Body Coordination	3.9	10.1	4.0	<<	Extensive improvement in abilities may be required
Spatial Orientation	2.7	9.2	2.2	<<	Extensive improvement in abilities may be required
Stamina	4.0	9.0	5.1	<<	Extensive improvement in abilities may be required
Gross Body Equilibrium	3.2	7.6	3.2	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 75
Focus Occupation: Welders, Cutters, Solderers, and Brazers (51-4121) Associated Occupation: Commercial Divers (49-9092)		
Work Activities	Exclusivity of Activity	
Burn (cut), trim, or scarf metal objects	80	
Fabricate, assemble, or disassemble manufactured products by hand	11	
Identify base metals for welding	68	
Identify properties of metals for repair or fabrication activities	71	

Maintain welding machines or equipment	70
Move or fit heavy objects	8
Perform safety inspections in industrial, manufacturing or repair setting	32
Read blueprints	10
Read specifications	23
Read work order, instructions, formulas, or processing charts	9
Signal directions or warnings to coworkers	42
Use acetylene welding/cutting torch	54
Use arc welding equipment	62
Use combination welding procedures	68
Use hand or power tools	2
Weld together metal parts, components, or structures	54

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Tools and Technologies that Both Occupations Have in Common

Similarity of Focus  
Occupation to Associated  
Occupation: n/a

**Focus Occupation: Welders, Cutters, Solderers, and Brazers (51-4121)**

**Associated Occupation: Commercial Divers (49-9092)**

### Tools and Technologies

### Exclusivity

Tools and technology data is unavailable for one or both occupations.

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.